

Docket No.: 0032-0292PUS1

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Tomokaz YOSHINAGA et al.

Application No.: 10/590,115 Confirmation No.: N/A

Filed: August 18, 2006 Art Unit: N/A

For: A SCREENING METHOD FOR A RIBONUCLEASE H INHIBITOR OF A

REVERSE TRANSCRIPTASE

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (SUBMISSION CONCURRENT WITH THE FILING OF A NEW PATENT APPLICATION)

MS Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. <u>LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION</u>

The patents, publications, or other information submitted for consideration by the Office are listed on the PTO-SB08(s), attached hereto.

II. COPIES

a. Copies of cited U.S. patents and patent application publications are not included.

Copies of foreign patent documents and non-patent literature are included.

Birch, Stewart, Kolasch & Birch, LLP

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Application No.: 10/590,115 Docket No.: 0032-0292PUS1 b. Some or all of the documents listed on the PTO-SB08 are not enclosed because they were cited in the International Search Report and copies should already be in the PTO file. If copies are needed, please contact the undersigned. c. REFERENCES PREVIOUSLY CITED OR SUBMITTED - Pursuant to 37 C.F.R. §1.98(d), consideration of information listed on the PTO-SB08 form(s) is requested since any patents, publications, or other information which are listed on the PTO-SB08 form(s) but for which copies are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120: U.S. Appl. No(s) and U.S. Filing Date PCT/JP2005/003100 filed February 25, 2005 III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box) \boxtimes a. <u>DOCUMENTS IN THE ENGLISH LANGUAGE</u> - The patents, publications, or other information listed on the attached PTO SB08 are in the English language and therefore, do not require a statement of relevancy. b. DOCUMENTS NOT IN THE ENGLISH LANGUAGE - A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows: ENGLISH LANGUAGE SEARCH REPORT - An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(III)(A)(3). d. OTHER - The following additional information is provided for the Examiner's consideration.

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Application No.: 10/590,115 Docket No.: 0032-0292PUS1 IV. FEES (check one box) a. This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required. b. This Information Disclosure Statement is being filed concurrent with the filing of a continuation-in-part, continuation, or divisional patent application; therefore, no fee is required. c. This Information Disclosure Statement is being filed within three months of the filing date of a national application (37 C.F.R. § 1.97(b)(1)). No fee or statement is required. (This section is not to be used with RCE's.) d. This Information Disclosure Statement is being filed within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or statement is required. This Information Disclosure Statement is being filed concurrently with the filing e.

of a Request for Continued Examination under § 1.114 (37 C.F.R. § 1.97(b)(4)). No fee or statement is required.

It is Information Disclosure Statement is being filed before the mailing date of a first Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or statement is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R.

§ 1.97(c) and see the statement under 37 C.F.R. § 1.97(e) below, or, if no statement has been

made, charge our deposit account for the fee as required by 37 C.F.R. § 1.17(p).

g. This Information Disclosure Statement is being filed before the mailing date of a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c)(1)) or before the mailing date of a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c)(2)).

No statement; therefore, a fee as required by 37 C.F.R. § 1.17(p) is attached.

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or

Application No.: 10/590,115 Docket No.: 0032-0292PUS1 See the statement below. No fee is required. V. STATEMENT UNDER 37 C.F.R. § 1.97(e) (check <u>only</u> one box) The undersigned hereby states that: Each item of information contained in the IDS was first cited in any a. communication from a foreign Patent Office in a counterpart foreign application not more than 30 days prior to the filing of this IDS; or b. Each item of information contained in the IDS was first cited in any communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS; or П C. No item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of the IDS. d. Some of the items of information were cited in a communication from a foreign Patent Office. As to this information, the undersigned states that each item of information contained in the IDS was first cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby states that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application and, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

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Application No.: 10/590,115 Docket No.: 0032-0292PUS1

VI. PAYMENT OF FEES (check one box)

The required fee is listed on the attached Fee Transmittal.

No fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 02-2448.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to our Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Dated: October 27, 2006

Respectfully submitted,

Mark J. Nuell

Registration No.: 36,623

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Attorney for Applicant

Attachment(s):

✓ PTO-SB08
✓ Documents
✓ Foreign Search Report
✓ Fee
✓ Other:

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PTO/SB/08A/B (09-06)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of

Complete if Known				
Application Number	10/590,115			
Filing Date	August 18, 2006			
First Named Inventor	Tomokaz YOSHINAGA			
Art Unit	N/A			
Examiner Name	Not Yet Assigned			
Attorney Docket Number	0032-0292PUS1			

	U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ² (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	

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FOREIGN PATENT DOCUMENTS						
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages	
Initials*	No.1	Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY	Applicant of Cited Document	or Relevant Figures Appear	T°
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²		
/D.T./		PALANIAPPAN et al., "Mutations within the Primer Grip Region of HIV-I Reverse Transcriptase Result in Loss of Rnase H Function", Vol.272, pgs 11157-11164 (1997)			
/D.T./		ARTS et al., "Interaction of Retroviral Reverse Transcriptase with Template-Primer Duplexes during Replication" Vol. 58, pp. 339-393 (1998)			
/D.T./		SHAW-REID et al., "Inhibition of HIV-1 Ribonuclease H by a Novel Diketo Acid, 4-[5-(Benzoylamino)thein-2-yl]2,4-dioxobutanoic Acid", The Journal of Biological Chemistry, Vol. 278, pp. 67-109 (2000)			
/D.T./		RYCHETSKY et al., "Development of a Nonradioactive Ribonuclease H Assay", Analytical Biochemistry 239, 113-115 (1996)			
/D.T./		PALANIAPPAN et al., "Nevirapine Alters the Cleavage Specificity of Ribonuclease H of Human Immunodeficiency Virus 1 Reverse Transcriptase" Journal Biological Chemistry, Vol. 270, pp. 4861-4869 (1995)			
/D.T./		SNYDER et al., "Comparison of Second- Strand Transfer Requirements and Rnase H Cleavages Catalyzed by Human Immunodeficiency Virus Type 1 Reverse Transcriptase (RT) and E478Q RT", Journal of Virology, pp. 9668-9679, Oct 2000, Vol. 74, No. 20			
/D.T./		PARNIAK et al., "A fluorescence-based high-throughoutput screening assay for Inhibitors of human immunodeficiency virus- reverse transcriptase-assocaited ribonuclease H activity", Analytical Biochemistry., Vol. 322, No. 1, pp. 33-39 (2003)			
/D.T./		McLELLAN et al., "Nonradioactive Detection of Retroviral-Associated Rnase H Activity in a Microplate-Based, High-Throughput Format" BioTechniques 33:424-429 (August 2002)			
/D.T./		SHAO et al., "Colorimetric asays for evaluation of the mode of action of human immunodeficiency virus type 1 non-nucleoside reverse transcriptase inhibitors", Antiviral Chemistry & Chemotherapy, Vol. 9, No. 2, pp 167-176 (1998)			
/D.T./		FAN et al., "Simultaneous mutations at Tyr-181 and Tyr-188 in HIV-1 reverse transcriptase prevents inhibition of RNA-dependent DNA polymerase activity by the bisheterorarylpiperazine			

Examiner	/David Thomas/	Date	09/22/2008
Signature	/David Hiomas/	Considered	00, 22, 2000



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			SCLOSURE	Filing Date	August 18, 2006	
			APPLICANT	First Named Inventor	Tomokaz YOSHINAGA	
	(Use as many sheets as necessary)			Art Unit	N/A	
				Examiner Name	Not Yet Assigned	
Sheet	2	of	2	Attorney Docket Number	0032-0292PUS1	

/D.T.,	(BHAP) U-90152s, Federation of European Biochemical Societies, Vol. 370, Nos. 1 & 2, pgs 59-62 (1995)	\neg
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner	/David Thomas/	Date	09/22/2008
Signature	7.55 5.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7	Considered	03/22/2000

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